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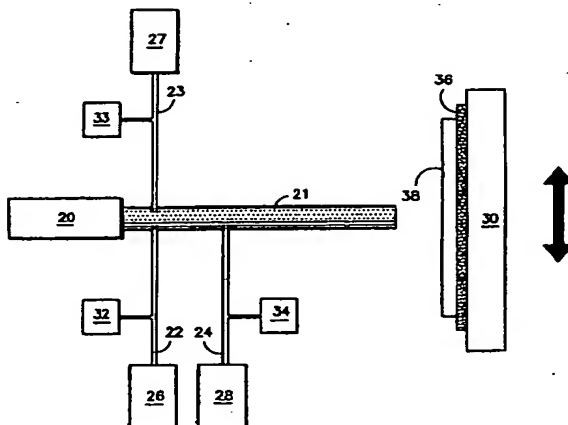
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(54) Abradable seal and method of producing such a seal

(57) An air seal for use in a gas turbine engine includes reduced susceptibility to deflagration during operating conditions in which an excessive amount of seal material is liberated from the seal and ingested into the engine. The seal includes a seal substrate 30, and a thermally sprayed metallic bond layer 36 applied to the seal substrate 30. The bond layer 30 includes nickel and

aluminum. The seal also includes a thermally sprayed abradable seal layer 38 applied to the bond layer 36. The abradable material is composed of aluminum powder and silicon powder forming a metal matrix, and co-deposited methyl methacrylate particles embedded as filler in the metal matrix. The filler is less likely to deflagrate compared to conventionally used materials such as polyester.

FIG.2





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Place of search MUNICH		Date of completion of the search 23 April 2002	Examiner Koch, R
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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